Abstract

The vital problem over the Wireless Sensor Networks (WSNs) are that they are often vulnerable to attacks where an adversary can easily compromise some of the nodes, can reprogram, and then, can imitate them in a large number. They distribute the clones in the network, launching node replication attacks or clone attacks by loading secret information into several replicated nodes and rejoining these nodes to execute malicious behaviors or threaten underlying protocols. Earlier works against clone attacks suffer from either a high storage or poor detection accuracy. In this paper we are proposing a new remedial, algorithm called RERD
Imitation Assault Detection in a Region Partitional Distributed Approach for a Wireless Sensor Network

(Region based – Efficient, Randomized, and distributed) that detects the clone attack achieving a higher probability of detection. The wireless zone is partitioned into regions with the new DRCS algorithm followed by clone detection using TWG algorithm which is a combination of Token message and witness node.

References


Index Terms

Computer Science
Keywords
WSN  clone attack  region  RERD  distributed